

# **TASK ORDER #2**

**VTS LOWER MISSISSIPPI RIVER VTC AND**

**REMOTE SITE DESIGN**

**in**

**New Orleans, LA**

**PRELIMINARY**

**23 September 1997**

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## 1.0 SCOPE OF TASK ORDER

Based on their system architecture, the System Integration Contractor (SIC) shall layout and design the New Orleans Vessel Traffic Center (VTC) and also design the facility modifications needed for the Governor Nicholls Light Facility. Construction is not included in this task. The VTC will be completed by the building owner, or a separate task order to the SIC, based on the SIC's drawings and specifications.

These tasks include architectural and engineering design, preparation of drawings, specifications, and cost estimates for any work that is to be accomplished. The work includes design of all civil, structural, architectural, mechanical, electrical, and environmental components for the complete Vessel Traffic Service (VTS) system (hereafter referred to as the VTS system).

## 2.0 APPLICABLE DOCUMENTS AND CLINS

A list of the documents referenced in this task order is presented below. Compliance with these documents is required to the degree specified within this task order or the Statement of Work (SOW).

### 2.1 APPLICABLE DOCUMENTS

<u>Document Number</u>	<u>Document Title</u>	<u>Version Date</u>
No Number	Statement of Work for the PAWSS Project's System Integration Contractor	19 September 1997
No Number	System Specification for the VTC System	22 September 1997
TBD	U.S. Coast Guard CADD Drawing Standards (AUTOCAD Release 12) and CE-CADD, Version(5.2a)	TBD

### 2.2 APPLICABLE CLINS

CLIN 004A Design of Facility Modifications at the  
Governor Nicholls Light Facility.

### 3.0 TECHNICAL DESCRIPTION OF WORK

#### 3.1 PERIOD OF PERFORMANCE

<u>CLIN</u>	<u>Period of Performance</u>	<u>Duration of Performance</u>
004A	T.O. award through acceptance of 100% of the VTC facility design and the Governor Nicholls Light Facility design documentation	4 months

#### 3.2 PLACE OF PERFORMANCE AND DELIVERY

Work on this task order shall be performed at the SIC or sub-contractor facility. This does not preclude visits to the VTC location or remote sites for design review. The final documentation shall be delivered to Coast Guard Headquarters as required by the CDRLs

#### 3.3 GOVERNMENT FURNISHED ITEMS

##### 3.3.1 Government Furnished Property (GFP)

###### When Required

###### 3.3.1.1 VTC Site

The Coast Guard will provide a site for the VTC in New Orleans and a document containing the site location and a description of the level of site development, availability date, identification of any existing communications wiring, available utilities, and any restrictions.

At T.O. Award

###### 3.3.1.2 Governor Nicholls Site

The Coast Guard will provide the Governor Nicholls site.

At T.O. Award

###### 3.3.1.3 Drawing Standards

The Coast Guard will provide CADD Drawing Standards and CE-CADD, Version 5.2(a) on 3-1/2 inch diskettes.

###### When Required

At T.O. Award

#### **3.3.1.4 Software Comparator**

The Coast Guard will provide the program "Software Comparator", for checking CE-CADD file quality.

60 Days after  
T.O. Award

#### **3.3.2 Government Furnished Equipment (GFE)**

##### **3.3.2.1 Telecommunications Services**

U. S. Coast Guard will provide Telecommunications Services as requested by the SIC and approved by the Coast Guard in accordance with paragraph 3.2.5.6.1.4.3 of the SOW.

As requested  
by TSR

#### **3.3.3 Government Furnished Information (GFI)**

The Coast Guard estimates the cost of construction at the VTC and Governor Nicholls Light facility, for fee determination, to be \$350,000.

#### **3.4 WORK SUBTASKS**

This task order is divided into three subtasks. Coast Guard disapproval of any data delivery requires correction and resubmission by the SIC.

##### **3.4.1 Subtask 1 - Project Management**

The SIC shall conduct Program Management Reviews PMRs on all active task orders in accordance with Paragraph 3.1.1.2 of the SOW. The SIC shall conduct the first PMR 30 days after award of this task order in conjunction with the design review (see paragraph 3.4.1.3) and as appropriate thereafter except the Coast Guard and SIC may mutually agree to hold a PMR in the New Orleans area. The Contractor or Coast Guard shall schedule PMRs at least quarterly. They should coincide with major events in the progress of the task order. The Coast Guard and the SIC shall mutually agree to dates for reviews at least two weeks prior to the date of the meeting.

The PMRs shall be attended by the Coast Guard and other support groups, as required. The building owner will be invited to attend the meetings for design coordination

##### **3.4.1.1 Progress Reports**

The SIC shall submit Progress Reports in accordance with the SOW, paragraph 3.1.1.3.

#### **3.4.1.2 Site Visits**

While performing services at the site, the SIC shall comply with the Marine Safety Office (MSO), New Orleans regulations. Unless otherwise authorized by the Contracting Officer, the unit working hours will be observed (7:30am to 4:30pm, Monday through Friday). The SIC shall schedule site visits with the unit, at least seven working days in advance.

#### **3.4.1.3 Initial System for Facilities Layout Design Review**

The Contractor shall conduct a design review of the VTC and Governor Nicholls Light build-out concurrently with the design review of Task Order #1, as required by the SOW paragraph 3.1.5.

#### **3.4.1.4 Cost Estimates**

The Contractor shall prepare cost estimates for each site (VTC and Governor Nicholls Light) in accordance with Appendix A. Cost estimates shall indicate the work for each site sub-item. Overhead, profit, contingency, and location index shall also be listed separately as a percentage of the total cost of construction.

#### **3.4.2 Subtask 2 - VTC Design Layout**

The SIC shall meet the requirements of paragraph 3.1.4 of the SOW. The layout drawings shall indicate how the furnishings are positioned in the various areas and how the VTC operator's equipment and the equipment room equipment will fit within the area provided.

The VTC shall accommodate the space requirements as shown in Table 1. The Coast Guard will provide guidance in design of the Table 1 portions of the facility in collaboration with the SIC.

The operating positions shall consist of a minimum of one Watch Supervisory position, two Watchstander Operator positions, and one System Administrator/Training position with an expansion capability for two additional positions. The SIC shall be responsible for the layout of all VTS operational capability including requirements for power, communications, HVAC, and any other VTC design details required to accommodate the entire VTS system including expansion capability.



**Table 1. VTC Space Requirements**

	<b>Square Feet (Nominal)</b>
Operation Supervisor Office	175
Training Officer Office	150
Watch Supervisors Office	100
System Administrator Office	75
Document/Maintenance Library	150
Training Room/Visitor's Center	350
VTC Watchstander Operator Positions, Supervisors Position, and Training Officers Position Space	600
Equipment Room Basic Equipment with easy access to a freight elevator	250
Maintenance Contractor/Spare Parts Storage	200
Chart/Data Storage and Archives	150
Lounge/Galley	200
Total	2,400

The SIC shall design for the probability that the building owner will provide a mechanical room space of approximately 400 square feet to support the VTS. Design for the VTC space does not include mechanical room emergency power equipment and special associated HVAC. Details of the mechanical room space requirements will be provided at task order award.

The design shall be discussed during the design review conducted in accordance with the SOW, paragraph 3.1.5.

The Site Preparation Requirement and Installation Plans for the VTC shall be submitted at the 35 percent, 95 percent, and 100 percent completion stages as required in paragraph 3.1.4 of the SOW.

The Specification paragraphs shown in Table 2 are applicable to the VTC Design Layout.

**Table 2. VTC Design Layout Specifications**

<b>Parameter</b>	<b>Specification Reference</b>
Building Code Compliance	3.2.2.1
Building Code Compliance Exceptions	3.2.2.1.1
Facilities	3.2.2.2
VTC Facilities	3.2.2.3
Power	3.2.2.5
Intercom and Public Address	3.2.2.6
Remote Site Facilities (applicable to remote sites only)	3.2.2.4

### **3.4.3 Subtask 3 - VTS Governor Nicholls Design Layout**

The SIC shall provide layout design for installation of a new radar and radar processor at the Coast Guard Governor Nicholls Light facility that meets Specification requirements in accordance with paragraph 3.1.4.2 of the SOW. The Coast Guard may choose to provide a Surface Search Radar (SSR) as GFE in lieu of a SIC provided radar. The Governor Nicholls Light description is attached as Appendix B.

The SIC shall prepare drawings and specifications for layout and facility improvements required for the Governor Nicholls site for the construction or improvements of a tower and/or shelter. The drawings and specifications shall be in accordance with the documentation requirements of paragraph 3.2.5.6.3.4 of the SOW.

The Governor Nicholls Light facility layout and design effort shall include SIC/GFE/existing equipment, telecommunications, remote control, and all other aspects of facility remote site design to permit rapid installation of the radar by the SIC upon authorization by separate task order. Telecommunications requirements (including interface to marine traffic lights) shall be specified and included in the design documents. The Coast Guard will provide for telecommunications services as required in the Specification, paragraph 3.2.1.4, Telecommunications Services Request (TSR) and in paragraph 3.2.5.6.1.4.3 of the SOW.

The SIC shall prepare a Site Preparation Requirement and Installation Plan for the Governor Nicholls Light at the 35 percent, 95 percent, and 100 percent completion stages as required by paragraph 3.1.4 of the SOW.

#### **4.0 QUALITY ASSURANCE REQUIREMENTS**

The SIC shall implement, manage, and maintain a Quality Program in accordance with paragraph 4.1 of the SOW.

## APPENDIX A A/E COST ESTIMATE FORMS

insert form here

APPENDIX A  
A/E COST ESTIMATE FORMS

2nd page of form

**APPENDIX B    LOCATION AND DETAILS OF GOVERNOR NICHOLLS  
LIGHT**

To be supplied

## **APPENDIX C: ACRONYMS**

AIS	Automatic Identification System
CDRL	Contract Data Requirements List
CLIN	Contract Line Item Number
DAC	Days After Contract
DSC	Digital Select Calling
GFE	Government Furnished Equipment
GFI	Government Furnished Information
GFP	Government Furnished Property
HVAC	Heating, Ventilation, and Power
PAWSS	Ports and Waterways Safety System
PMR	Project Management Review
SIC	System Integration Contractor
SOW	Statement Of Work
SSR	Surface Search Radar
TBD	To Be Determined
T.O.	Task Order
TSR	Telecommunications Service Request
VTC	Vessel Traffic Center
VTs	Vessel Traffic Service

## APPENDIX D: CDRLS REFERENCED THROUGH SUBTASKS

<u>Sub-task</u>	<u>CDRL No.</u>	<u>CDRL Name</u>	<u>SOW Paragraph</u>	<u>Due Date</u>
1	002	<i>Program Management and Design Review Documentation: Agenda, Presentation Materials, and Minutes (for the PMRs)</i>	3.1.1.2.1 & 3.1.1.2.3	See Form 1423
1	003	<i>Status and Management Progress Report</i>	3.1.1.3	Monthly on the 15th
1	002	<i>Program Management and Design Review Documentation: Agenda, Presentation Materials, and Minutes (for the design review)</i>	3.1.5.1 & 3.1.5.3	See Form 1423
2	004	<i>Site Preparation Requirements and Facility Installation Plan for the VTC)</i>	3.1.4	4 Months After Award of T.O.
3	018	<i>Port Specific System Documentation</i>	3.2.5.6.3.4	
3	023	<i>Telecommunication Service Request</i>	3.2.5.6.1.4.3	4 Months After Award of T.O.
3	004	<i>Site Preparation Requirements and Facility Installation Plan for the VTC)</i>	3.1.4	4 Months After Award of T.O.